



# STIC Search Report

EIC 3600

STIC Database Tracking Number: 107708

Gary Hartmann  
Location Knx2A11.  
Art Unit: 3671  
Employee# 74158  
Friday, April 03, 2009  
Case Serial Number: 10/799492

From: Etelka R. Griffin  
Location: EIC 3600  
KNOX/4B68  
Phone: 571-272-4230  
  
Etelka.griffin@uspto.gov

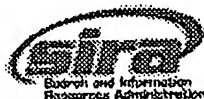
## Search Notes

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No Litigation was found for Serial Number 10/799492.  
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Thanks  
Etelka



**Application Number Information**

Application Number: 10/799492

**Assignments**

Filing or 371(c) Date: 03/12/2004 eDan

Effective Date: 03/12/2004

Application Received: 03/15/2004

Patent Number:

Issue Date: 00/00/0000

Date of Abandonment: 00/00/0000

Attorney Docket Number: 032687 08

Status: 89 /ALLOWANCE COUNTED

Confirmation Number: 5902

Title of Invention: COMPRESSIBLE WELDED WIRE WALL FOR RETAINING EARTHEN FORMATIONS

Examiner Number: 77697 / PECHHOLD, ALEXANDRA

Group Art Unit: 3671

IFW Madras

Class/Subclass: 405/284.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code: 1

Third Level Review: NO

Secrecy Order: NO

Status Date: 10/28/2005

Oral Hearing: NO

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
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Petition Info

Atty/Agent Info

Continuity/Reexam

Foreign Data

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or Patent#

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# Continuity/Reexam Information for 10/799492

**Parent Data**10799492, filed 03/12/2004is a reissue of 09568338, filed 05/10/2000**Child Data**

No Child Data

Appln Info	Contents	Petition Info	Atty/Agent Info	Continuity/Reexam	Foreign Data
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**Application Number Information**Application Number: **09/568338****Assignments**Filing or 371(c) Date: **05/10/2000** eDanEffective Date: **05/10/2000**Application Received: **05/11/2000**Patent Number: **6357970**Issue Date: **03/19/2002**Date of Abandonment: **00/00/0000**Attorney Docket Number: **HFKP-300**Status: **150 /PATENTED CASE**Confirmation Number: **8111**Title of Invention: **COMPRESSIBLE WELDED WIRE WALL FOR RETAINING EARTHEN FORMATIONS**Examiner Number: **77697 / PECHHOLD, ALEXANDRA**Group Art Unit: **3673****IFW Madras**Class/Subclass: **405/284.000**Lost Case: **NO**

Interference Number:

Unmatched Petition: **NO**L&R Code: Secrecy Code: **1**Third Level Review: **NO**Secrecy Order: **NO**Status Date: **03/01/2002**Oral Hearing: **NO**

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
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**Appln  
Info****Contents****Petition Info****Atty/Agent Info****Continuity/Reexam****Foreign Data****Search Another: Application #** **Search****or Patent#** **Search****PCT /** **Search****or PG PUBS #** **Search****Attorney Docket #** **Search****Bar Code #** **Search**

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568338 (09) 6357970 March 19, 2002

## UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

**6357970**[Get Drawing Sheet 1 of 8](#)[Access PDF of Official Patent \\*](#)[Order Patent File History / Wrapper from REEDFAX®](#)[Link to Claims Section](#)

March 19, 2002

Compressible welded wire wall for retaining earthen formations

**REISSUE:** March 12, 2004 - Reissue Application filed Ex. Gp.: 3673; Re. S.N. 10/799,492 (O.G. June 15, 2004)**INVENTOR:** Hilfiker, Harold K. - Eureka, California, United States (US) Hilfiker, William B. - Eureka, California, United States (US)**APPL-NO:** 568338 (09)**FILED-DATE:** May 10, 2000**GRANTED-DATE:** March 19, 2002**ASSIGNEE-PRE-ISSUE:** May 10, 2000 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., HILFIKER PIPE COMPANY 3900 BROADWAYEUREKA, CALIFORNIA, 95503, Reel and Frame Number: 011029/0530**ASSIGNEE-AT-ISSUE:** Hilfiker Pipe Company, Eureka, California, United States (US), United States company or corporation (02)**CORE TERMS:** mat, lift, wire, backing, reinforcing, soil, transverse, longitudinal, floor, successive ...**ENGLISH-ABST:**

An improved method and apparatus for constructing a soil reinforced earthen retaining wall wherein successive soil reinforcing mats embedded within an earthen formation have bent-up face elements which are slidably engaged to enable the earthen formation to settle without bulging the face elements. Backing mats are disposed behind the face elements for movement relative thereto in generally vertical planes. The backing mats serve to support the successive soil reinforcing mats and permit the mats to move toward one another to

accommodate settling of the formation without bulging of the face elements.

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Segments: Abst, Assignee, Date, English-title, Filed-date, Inventor, Legal-status, Reissue

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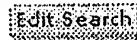
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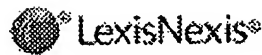
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Family Accession Nbr :

20042800337495

Patent Number :

US6357970 B1 20020319 [US6357970]

Title :

Compressible welded wire wall for retaining earthen formations

Patent Assignee :

HILFIKER PIPE COMPANY

Orig. Patent Assignee :

Hilfiker Pipe Company, Eureka CA [US]

Inventor(s) :

HILFIKER HAROLD K; HILFIKER WILLIAM B

Application Nbr :

2000US-0568338 20000510

Priority Details :

2000US-0568338 20000510

IPC :

E02D-017/20

E02D-029/02

IPC Advanced All :

E02D-029/02 [2006-01 A - I R M EP]

IPC Core All :

E02D-029/02 [2006 C - I R M EP]

ECLA :

E02D-029/02D2

US Class :

ORIGINAL (O) : 405302700; CROSS-REFERENCE (X) : 405262000 405284000

405302400 405302600

Citations :

(US6357970)

Cited by the applicant

-US4117686(A) [US4117686]

-US4329089(A) [US4329089]

-US4391557(A) [US4391557]

-US4505621(A) [US4505621]

-US4643618(A) [US4643618]

-US4856939(A) [US4856939]

-US5531547(A) [US5531547]

-US5622455(A) [US5622455]

-US5722799(A) [US5722799]

-US5733072(A) [US5733072]

-FR2303121(A1) [FR2303121]

-Barry R. Christopher, etc., "The Heavy Duty Geogrid Wall," Civil Engineering, May 1988, pp. 75-77.

Abstract :

(US6357970)

An improved method and apparatus for constructing a soil reinforced earthen retaining wall wherein successive soil reinforcing mats embedded within an earthen formation have bent-up face elements which are slidably engaged to enable the earthen formation to settle without bulging the face elements. Backing mats are disposed behind the face elements for movement relative thereto in generally vertical planes. The backing mats serve to support the successive soil reinforcing mats and permit the mats to move toward one another to accommodate settling of the formation without bulging of the face elements..

Object of Invention :

(US6357970)

The present invention relates to the retention of earthen formations and, more particularly, is concerned with a retaining and reinforcing mechanism made up of welded wire mats having face sections which are secured to one another.

In its more specific aspects, the invention is concerned with an improved method and apparatus which accommodates settling of the earthen formation, without bulging of the face sections of the wall.

The present invention provides a welded wire reinforced soil retaining wall where the horizontal soil reinforcing elements may move toward one another in response to the settling of an earthen formation, without bulging of the face sections.

A principal object of the invention is to provide a soil reinforced retaining wall utilizing welded wire soil reinforcing elements having face sections which can accommodate settling of the retained earthen formation, without bulging.

Another object of the invention is to provide such a wall in which the face maintains its integrity and aesthetic appearance, even where settlement of the earthen formation takes place.

Still another object of the invention is to provide such a wall which will adapt to the settlement of a retained earthen formation which frequently occurs as the result of inadequate compaction of fill and/or poor fill quality.

Yet another object of the invention is to provide such a wall in which the soil reinforcing elements are securely held together during erection of the wall, while still permitting relative movement of the elements in response to settlement of the earthen formation being retained.

Still another and more specific object is to provide such a wall wherein the number of components and their complexity is no greater than that of other soil enforced wire walls presently in use.

Another object is to provide such a wall which maintains its integrity throughout its life.

#### Independent Claims :

(US6357970)

1. A soil reinforced retaining wall for an earthen formation, comprising:

a) a plurality of welded wire soil reinforcing mats successively embedded in the formation one above the other in generally horizontal spaced relationship, each mat having a generally horizontal floor comprised of a gridwork of wires and a face comprised of generally vertically extending wires wherein the wires of the face of each mat are held against horizontal displacement by the reinforcing mat thereabove and are free to move vertically relative thereto; and,

b) a welded wire backing mat disposed behind the vertically extending wires of the face of each reinforcing mat for movement relative thereto in a generally vertical plane, each backing mat having an element for supporting engagement with the next successive reinforcing mat thereabove and being spaced from the floor of the reinforcing mat therefor to permit the next successive reinforcing mat to settle to accommodate settling of the earthen formation.

9. A method of constructing a soil reinforced retaining wall for an earthen formation, comprising:

a) embedding a plurality of welded wire soil reinforcing mats in the formation in generally horizontal spaced relationship to one another so that each mat has a generally horizontal floor comprised of a gridwork of wires and a face comprised of generally vertically extending wires wherein the wires of the face of each reinforcing mat are held against horizontal displacement by the mat thereabove and are free to move vertically relative thereto; and,

b) positioning a welded wire backing mat behind the vertically extending wires of the face of each reinforcing mat for movement relative thereto in a generally vertical plane, each backing mat being disposed for supporting engagement with the next successive reinforcing mat thereabove and being spaced from the floor of the reinforcing mat therefor to permit the next successive reinforcing mat to settle to accommodate settling of the earthen formation.

17. A soil reinforced retaining wall for an earthen formation, comprising:

a) first and second welded wire soil reinforcing mats embedded in the formation in generally horizontally spaced relationship with the second mat being disposed above the first mat and the first mat having a face extending upwardly from one end thereof toward the second mat; and,  
b) support means carried by the face of the first mat and disposed for supporting engagement with the second mat, said means being movable relative to the face to permit the second mat to move vertically relative to the first mat to accommodate settling of the earthen formation without bulging of the face.

Update New docs :  
2002-13

1 / 1 LGST - ©EPO

Patent Number :

US6357970 B1 20020319 [US6357970] (B1) Granted patent as first publication

Application Number :

US56833800 20000510 [2000US-0568338]

Publication actions :

20000510 US-API [POS; EXM]

FILING DETAILS

US56833800 20000510 [2000US-0568338]

20020319 US-B1 [POS; PIF]

Granted patent as first publication

US6357970 B1 20020319 [US6357970]

Action Taken :

20000510 US/AS-A [NMC]

ASSIGNMENT

OWNER: HILFIKER PIPE COMPANY 3900 BROADWAY EUREKA CALIFOR; EFFECTIVE

DATE: 20000502

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:HILFIKER, HAROLD K.;HILFIKER, WILLIAM B.;REEL/FRAME:011029/0530

20040615 US/RF-A [OPP]

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20040312

Lasted Event Group :

OPP

Alive

Update Code :

2004-29

1 / 1 CRXX - ©CLAIMS/RRX

Patent Number :

6,357,970 A 20020319 [US6357970]

Patent Assignee :

Hilfiker Pipe Co

Actions :

20040312 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20040615

REISSUE REQUEST NUMBER: 10/799492

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3673

Reissue Patent Number:



1 / 1 PLUSPAT - @Questel

Patent Number :

US6357970 B1 20020319 [US6357970]

Title :

(B1) Compressible welded wire wall for retaining earthen formations

Patent Assignee :

(B1) HILFIKER PIPE COMPANY (US)

Patent Assignee :

Hilfiker Pipe Company, Eureka CA [US]

Inventor(s) :

(B1) HILFIKER HAROLD K (US); HILFIKER WILLIAM B (US)

Application Nbr :

US56833800 20000510 [2000US-0568338]

Priority Details :

US56833800 20000510 [2000US-0568338]

Intl Patent Class :

(B1) E02D-017/20

IPC Advanced All :

E02D-029/02 [2006-01 A - I R M EP]

IPC Core All :

E02D-029/02 [2006 C - I R M EP]

EPO ECLA Class :

E02D-029/02D2

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ORIGINAL (O) : 405302700; CROSS-REFERENCE (X) : 405262000 405284000  
405302400 405302600

Document Type :

Basic

Citations :

Cited by the applicant

-US4117686(A) [US4117686]

-US4329089(A) [US4329089]

-US4391557(A) [US4391557]

-US4505621(A) [US4505621]

-US4643618(A) [US4643618]

-US4856939(A) [US4856939]

-US5531547(A) [US5531547]

-US5622455(A) [US5622455]

-US5722799(A) [US5722799]

-US5733072(A) [US5733072]

-FR2303121(A1) [FR2303121]

-Barry R. Christopher, etc., "The Heavy Duty Geogrid Wall," Civil  
Engineering, May 1988, pp. 75-77.

Publication Stage :

(B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

Abstract :

An improved method and apparatus for constructing a soil reinforced earthen retaining wall wherein successive soil reinforcing mats embedded within an earthen formation have bent-up face elements which are slidably engaged to enable the earthen formation to settle without bulging the face elements. Backing mats are disposed behind the face elements for movement relative thereto in generally vertical planes. The backing mats serve to support the successive soil reinforcing mats and permit the mats to move toward one another to accommodate settling of the formation without bulging of the face elements.

Update Code :

2002-13

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Patent Number :

US6357970 B1 20020319 [US6357970] (B1) Granted patent as first publication

Application Number :

US56833800 20000510 [2000US-0568338]

Publication actions :

20000510 US-API [POS; EXM]

FILING DETAILS

US56833800 20000510 [2000US-0568338]

20020319 US-B1 [POS; PIF]

Granted patent as first publication

US6357970 B1 20020319 [US6357970]

Action Taken :

20000510 US/AS-A [NMC]

ASSIGNMENT

OWNER: HILFIKER PIPE COMPANY 3900 BROADWAY EUREKA CALIFOR; EFFECTIVE

DATE: 20000502

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:HILFIKER, HAROLD K.;HILFIKER, WILLIAM B.;REEL/FRAME:011029/0530

20040615 US/RF-A [OPP]

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20040312

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Patent Number :

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Patent Assignee :

Hilfiker Pipe Co

Actions :

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ISSUE DATE OF O.G.: 20040615

REISSUE REQUEST NUMBER: 10/799492

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3673

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